Potassium hydroxide

19431

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Potassium Hydroxide

Catalog Numbers:
57170, 57179, 57197-2, P290-3, P295-3, P2453, P290-1, P250-10, P290-3, P290-50, P290-500, P290-5000, P290-100, P290-5000, P290-100, P290-5000, P290-1000, P290-5000, P290-10000

Synonyms:
Caustic potash, lye, potassium hydrate

Company identification:
Reagan Laboratories

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS# Chemical Name % EINECS#
1310-58-3 Potassium hydroxide (KOH) 100 215-181-3

**** SECTION 3 - HAZARDOUS IDENTIFICATION ****

Appearance: white or yellow

Explosion Limits: Upper: Not available

**** SECTION 4 - FIRST AID MEASURES ****

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Discard contaminated clothing in a manner which minimizes exposure further.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Toxicity: Treat symptomatically and supportively.

Antidote: None reported.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dust.

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Do not allow water to get into the container because of violent reaction. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from strong acids. Keep away from water, keep away from metals. Keep away from flammable liquids. Keep away from organic halogenes.

**** SECTION 7 - HANDLING AND STORAGE ****

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

OSHA Vacated PELs:

Potassium hydroxide (KOH):

No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment:

Eyes: Wear safety glasses and chemical goggles or face shield if handling liquids.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid

Appearance: white or yellow

Odor: Odorless

pH: 13.5 (0.1M solution)

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Vapor Pressure: Not available

Boiling Point: 2408 deg F

Freezing/Melting Point: 680 deg F

Decomposition Temperature: Not available

Solubility: Soluble in water

Specific Gravity/Density: 2.04

Molecular Formula: KOH

Molecular Weight: 56.104

**** SECTION 10 - STABILITY AND REACTIVITY ****
Chemical Stability:
Stable. Readily absorbs carbon dioxide and moisture from the air and deliquesces.

Conditions to Avoid:
Incompatible materials, moisture, contact with water, acids, metals.

Incompatibilities with Other Materials:
Generates large amounts of heat when in contact with water and may steam and splatter. Reacts with chlorine dioxide, nitrobenzene, nitromethane, nitrogen trichloride, peroxidized tetrahydrofuran, 2,4,6-trimethylbenzene, bromoform-crown ethers, acids, alcohols, sugars, germanium cyclopentadiene, malic dicarbide. Corrosive to metals such as aluminum, tin, and zinc to cause formation of flammable hydrochloric gas.

Hazardous Decomposition Products:
Oxides of potassium.

Hazardous Polymerization: Has not been reported.

*** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS:
CAS#: 1310-58-3: TT2100000
LD50/100:

Carcinogenicity:
Potassium hydroxide (KOH) - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology:
No data available.

Teratogenicity:
No Information reported.

Reproductive Effects:
No data available.

Neurotoxicity:
No data available.

Mutagenicity:
No data available.

Other Studies:
No data available.

*** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:
Not available.

Environmental Fate:
Not available.

Physical-Chemical:
Not available.

Other:
Not available.

*** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Disposal of in a manner consistent with federal, state, and local regulations.

RCRA D-Series Maximum Concentration of Contaminants:
None listed.

RCRA D-Series Chronic Toxicity Reference Levels:
None listed.

RCRA F-Series:
None listed.

RCRA P-Series:
None listed.

RCRA U-Series:
None listed.

*** SECTION 14 - TRANSPORT INFORMATION ****

US DOT:
Shipping Name: POTASSIUM HYDROXIDE, SOLID
Hazard Class: 8
Packaging Group: II
IMDG:
No Information available.
IATA:
No Information available.
RID/ADR:
No Information available.

Canadian TDG:
Shipping Name: POTASSIUM HYDROXIDE
Hazard Class: 8(2)
UN Number: UN1813

*** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL:
TSCA:
CAS#: 1310-58-3 is listed on the TSCA inventory.

Health & Safety Reporting List:
None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules:
None of the chemicals in this product are under a Chemical Test Rule.

Section 12b:
None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule:
None of the chemicals in this material have a SNUR under TSCA.

SARA:
Section 302 (RO):
CAS#: 1310-58-3: final RQ = 1000 pounds (454 kg)
Section 302 (TPQ):
None of the chemicals in this product have a TPQ.

SARA Code:
CAS#: 1310-58-3: acute, reactive.
Section 311:
No chemicals are reportable under Section 311.

Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class I or II depletors.
This material does not contain any Class II depletors.

Clean Water Act:
CAS#: 1310-58-3 is listed as a Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE:
Potassium hydroxide (KOH) can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.
California No Significant Risk Level:
None of the chemicals in this product are listed.

European/International Regulations:
European Labeling in Accordance with EC Directives
Risk Phrases:
R 35: Causes severe burns.

Safety Phrases:
S 16: Keep away from sources of ignition - No smoking.
S 2: Keep out of reach of children.
S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 27: Take off immediately all contaminated clothing.
S 37/39: Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection):
CAS#: 1310-58-3: 1

Canada:
CAS#: 1310-58-3 is listed on Canada's DSEL/IODS List.
This product has a WHMIS classification of D1B, 5.

CANADIAN:
CAS#: 1310-58-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits:
CAS#: 1310-58-3: OEL-australia: TWA 2 mg/m3. OEL-belgium: STEL 2 mg/m3. OEL-denmark: TWA 2 mg/m3. OEL-UK: TWA 2 mg/m3. OEL-france: STEL 2 mg/m3. OEL-japan: TWA 2 mg/m3. OEL-netherlands: TWA 2 mg/m3. OEL-sweden: TWA 2 mg/m3. OEL-switzerland: TWA 2 mg/m3.

UNG:
CAS#: 1310-58-3: OEL-united Kingdom: TWA 2 mg/m3. OEL-stel: 2 mg/m3. OEL: 0.1 mg/m3. OEL-in bulgaria: 0.1 mg/m3. OEL-colombia: 0.1 mg/m3. OEL-jordan: 0.1 mg/m3. OEL-korea: 0.1 mg/m3. OEL-spain: 0.1 mg/m3. OEL-singapore: 0.1 mg/m3.

MSCDS Creation Date:
1/05/1995
Revision #1 Date:
3/03/1998

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